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From: "L'Heureux, Paul G NAE" <Paul.G.L'Heureux@usace.army.mil>

To: William Nelson/NAR/USEPA/US@EPA; "Mackay, Joseph B NAE" <Joseph.B.Mackay@usace.army.mil>

Copy To: Barbara Bergen/NAR/USEPA/US@EPA; "Schroeder, Paul R ERDC-EL-MS" <Paul.R.Schroeder@usace.army.mil>; "Leitch, Robert A NAE" <Robert.A.Leitch@usace.army.mil>; "Fredette, Thomas J NAE" <Thomas.J.Fredette@usace.army.mil>; "Beaudoin, Maurice NAE" <Maurice.Beaudoin@usace.army.mil>; Dave Dickerson/R1/USEPA/US@EPA; ElaineT Stanley/R1/USEPA/US@EPA

Delivered Date: 03/05/2009 12:11 PM EDT

Subject: RE: Water Quality Monitoring, City CAD Cell Filling

Much of the city dredging to be performed is in the southern part of the lower harbor. However, there is a small area adjacent Sawyer Street in the upper harbor (crewing boat house anchorage) and two areas adjacent Ralph Packers loading facility that will exhibit similar disposal characteristics to the Superfund dredge material. The CAD cell being used for disposal will exhibit similar current, depth and tide conditions as the lower harbor Cad cell.

-----Original Message-----
From: Nelson.William@epamail.epa.gov [mailto:Nelson.William@epamail.epa.gov]
Sent: Thursday, March 05, 2009 7:59 AM
To: Mackay, Joseph B NAE
Cc: Bergen.Barbara@epamail.epa.gov; L'Heureux, Paul G NAE; Schroeder, Paul R ERDC-EL-MS; Leitch, Robert A NAE; Fredette, Thomas J NAE
Subject: RE: Water Quality Monitoring, City CAD Cell Filling

Bob,

I agree with Jay and Paul, the physical characteristics and logistics (i.e., level of contamination, water depth, sediment silt/clay %, etc.) of the city's dredging is probably completely different than what will occur for the Superfund dredging north of Coggeshall St. However, that said, I think this could be a good opportunity to contribute to the ongoing modelling exercise being done by ERDC. Last November when we took them out to use their cosmic in-situ particle settling device, water column particulate concentrations were very low. They did collect sediments to do some sed-flume work and selected water column collections during the city's dredging could provide them with additional data to develop and/or validate their model.

If you have any other specifics relative to the city dredging project (e.g., where the sediment is being dredged, where it's getting dumped, water depth, etc.), maybe we could determine what, if any, information we can collect to make relevant comparison with the future Superfund dredging.

Skip

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|"Mackay, Joseph B NAE" <Joseph.B.Mackay@usace.army.mil>
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| To: |
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|"Leitch, Robert A NAE" <Robert.A.Leitch@usace.army.mil>, "Fredette, Thomas
J NAE" <Thomas.J.Fredette@usace.army.mil>, "Schroeder, Paul R |
|ERDC-EL-MS" <Paul.R.Schroeder@usace.army.mil>, William
Nelson/NAR/USEPA/US@EPA, Barbara Bergen/NAR/USEPA/US@EPA
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|"L'Heureux, Paul G NAE" <Paul.G.L'Heureux@usace.army.mil>
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| Subject: |
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|RE: Water Quality Monitoring, City CAD Cell Filling
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Bob et al: It may be useful to document how far downfield from the CAD cell water quality is being impacted and to what degree in order to draw some general conclusions regarding plume behavior and area of impact in lower New Bedford Harbor. (They may be doing this as part of their permit compliance already). However, if this CAD cell is located in a different location (lower harbor) and subject to different hydrologic conditions than where the Superfund cell would be (upper harbor) the ability to draw direct comparisons relative to water quality impacts would be limited. Another consideration is that for the remediation dredging/disposal the levels of contamination for the disposed material will be much higher and the potential for impact greater.

Prior CAD cell disposal monitoring efforts such as Boston Harbor and Providence included the use of acoustic Doppler technology to track plume dispersion supplemented with vertical profiling and water sample collection at specific downfield locations for TSS and parameters of concern. This was to document water quality impacts downfield of the disposal area(s)(CAD cells) relative to permitting (water quality cert)requirements. In the case of Boston it was to also verify that any resuspended material was not impacting winter flounder spawning habitat which was a concern of NMFS. I'm
wondering if the City has similar requirements imposed for their effort?

If the CAD cell disposal activities for the Superfund work will be subjected to some type of downfield criteria, which I'd imagine it would, I'd suggest that a similar type approach be worth considering. However, if CAD cell disposal is planned north of the Coggeshall Bridge and flux to the lower harbor is the primary concern then it might make sense to fire up station 2 (under the Coggeshall) as was done during the hot spot to track flux and toxicity.

Thanks

Jay

-----Original Message-----
From: Leitch, Robert A NAE
Sent: Wednesday, March 04, 2009 4:33 PM
To: Fredette, Thomas J NAE; Schroeder, Paul R ERDC-EL-MS; Skip Nelson; Barb Bergen; Mackay, Joseph B NAE
Cc: L'Heureux, Paul G NAE; Leitch, Robert A NAE
Subject: Water Quality Monitoring, City CAD Cell Filling
Importance: High

Folks:

Next week the City of New Bedford's dredging contractor will be dredging some of the harbor and depositing the dredged material into the City's CAD Cell located in the lower harbor. Apex, the City's WQM Contractor, has indicated willingness to sample for parameter and at any specifications that would provide meaningful data to our project. In other words, when/if the proposal to deposit dredged material into a CAD Cell for the Superfund project is presented to the public, it would be beneficial to take advantage of any "lessons learned" from the City's effort.

So, do you have any suggestions on what to sample for and how/when/where to take the samples during the CAD Cell deposit of the dredged material?

As Apex needs to make arrangements today/tomorrow for next week, your timely response would be greatly appreciated.

Tx,

Bob